

Comparisons of Job Characteristics

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
English Language	11.2	19.4	15.4	<<	Extensive education and/or training may be required
Mathematics	9.2	18.1	10.1	<<	Extensive education and/or training may be required
Biology	3.7	18.0	16.2	<	Expanded education and/or training may be required
Education and Training	9.2	18.0	13.0	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	14.9	11.1	<<	Extensive education and/or training may be required
Geography	3.9	13.0	14.3	>	Current knowledge level is likely sufficient
Communications and Media	5.3	10.2	8.7	<	Expanded education and/or training may be required
History and Archeology	2.6	6.5	9.0	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Speaking	10.8	18.3	13.5	<<	Extensive development of skills in this area may be required

Reading Comprehension	10.7	17.0	13.2	<<	Extensive development of skills in this area may be required
Writing	9.2	16.5	11.4	<<	Extensive development of skills in this area may be required
Instructing	7.8	15.2	9.0	<<	Extensive development of skills in this area may be required
Active Listening	11.0	14.8	13.4	<	A higher skill level may be required
Active Learning	8.7	14.4	10.3	<<	Extensive development of skills in this area may be required
Learning Strategies	7.2	13.6	8.0	<<	Extensive development of skills in this area may be required
Monitoring	9.9	12.8	11.4	<	A higher skill level may be required
Complex Problem Solving	9.1	12.6	10.8	<	A higher skill level may be required
Science	4.5	10.6	9.3	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: Conservation Scientists (19-1031) Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	19.0	14.7	<<	Extensive improvement in abilities may be required
Speech Clarity	10.2	17.9	12.7	<<	Extensive improvement in abilities may be required
Oral Comprehension	12.5	17.0	14.0	<	Some improvement in abilities may be required
Written Expression	9.8	17.0	12.1	<<	Extensive improvement in abilities may be required
Written Comprehension	11.0	16.2	13.7	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	13.5	12.6	0	Current ability level may be sufficient
Inductive Reasoning	10.2	13.5	12.2	<	Some improvement in abilities may be required
Originality	7.6	10.1	10.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 89
Focus Occupation: Conservation Scientists (19-1031) Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)		
Work Activities	Exclusivity of Activity	

Advise governmental or industrial personnel	28
Conduct field research or investigative studies	52
Conduct research on work-related topics	44
Direct and coordinate scientific research or investigative studies	27
Use forestry, range, or other public land management techniques	92
Use knowledge of environmental laws and regulations	76
Use oral or written communication techniques	1
Use public speaking techniques	13
Use teaching techniques	29
Write research or project grant proposals	33
Write scholarly or technical research papers	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Forestry and Conservation Science Teachers, Postsecondary (25-1043)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.